



**NCER Funded
Small Business Innovation Research
(SBIR) Research Projects:
Region 3 - University of Maryland Grant List**



Tabular Query Results of NCER Program and Solicitation Information

47 Abstracts are listed

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date |
|--------|------------|---|---|---|-----------------------|--------------|---------------------------------------|
| 1 | R825247 | Atmospheric Fate and Dry Deposition of Urban Soot to Great Waters Using a Novel, State-of-the-Art Isotopic Particulate Tracer | University of Maryland | John M. Ondov | Deran Pashayan | \$454,976 | December 6, 1996 - December 5, 1999 |
| 2 | R825309 | Ecosystem Valuation Policy Applications for the Patuxent Watershed Ecological-Economics Model | Clark University | Jacqueline Geoghegan | Deborah Hanlon | \$104,685 | January 1, 1997 - December 31, 1998 |
| 3 | R82-1202 | Subadditivity and WTP/WTADifferentials--a Test of Competing Explanations | University of Maryland, College Park | John K. Horowitz | none | \$73,288 | 1 year |
| 4 | R82-1312 | Economics of Transition of Sustainable Farming | University of Maryland College Park | Erik Lichtenberg | none | \$219,788 | 2 years |
| 5 | R825251 | Interstitial Lung Disease Moisture, Molds, and Mycotoxins | University of Connecticut, University of Maryland, HL Turner Group, and PandK Microbiology | Bruce Jarvis , Eileen Storey, William Turner, and Chin Yang | Deran Pashayan | \$572,710 | December 2, 1996 - December 1 1999 |
| 6 | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | Resources for the Future; University of Maryland and World Bank; University of Colorado; University of Michigan | Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli | Deborah Hanlon | \$114,822 | October 1, 1995 - September 30, 1997 |
| 7 | R82-2282 | Effects of Metals on Immunological Dysfunction and Metallothionein Modulation in Hemocytes and Oysters Infected with Perkinsus marinus: A Characterization of Putative Environmental Biomarkers | University of Maryland | G. Roesijadi | none | \$327438 | 1 year |
| 8 | R822444 | Importance of Reductive Dechlorination in Chesapeake Bay Sediments Role of Sulfate Respiration | University of Maryland CEES/CBL, BERL/Academy of Natural Sciences | Douglas G. Capone, Joel E. Baker, and Cynthia C. Gilmour | Barbara Levinson | \$286,703 | October 1995 - September 1998 |
| 9 | U91-5374 | Phosphorus dynamics in tidal oligohaline marshes along the Choptank River, a tributary of the Chesapeake Bay | University of Maryland at College Park | Jeanna Rose Bryner | Georgette Boddie | \$31,485 | 9/1/98 |
| 10 | R828037 | Molecular Detection and Environmental Survey of Vegetative and Coccoid Helicobacter pylori | University of Maryland, College Park | M. Shahamat, M. Levin, K. Sowers, B. Bradley, and F. Robb | Cynthia L. Nolt-Helms | \$522,145 | May 2000 - May 2003 |
| 11 | R825269 | Development of a Semi-Continuous Monitor for Determination of Trace Elements and Heavy Metals in Ambient Aerosol Particles | University of Maryland; Harvard School of Public Health | John M. Ondov and Petros Koutrakis | Deran Pashayan | \$395, 885 | November 15, 1996 - November 14, 1999 |
| 12 | R823364 | Estimating Ownership and Use of Older Cars | University of Colorado; University of Maryland; Resources for the Future | Anna Alberini, Virginia D. McConnell, Winston Harrington | Deborah Hanlon | \$50,000 | June 12, 1995 - June 11, 1996 |
| 13 | R827972 | Over-compliance in Point Source Water Pollution | University of Maryland | John Horowitz | Matthew Clark | \$59,316 | December 15, 1999 û December 15, 2000 |
| 14 | R824995 | Integrated Assessment of the Public Health Effects of Climate Change for the United States | Johns Hopkins University, University of Maryland, University of South | Jonathan Patz, Hugh Ellis, Rita Colwell, Joan Rose, Anne Fisher, Anne Bostrom, Dana Focks, and Laurence Kalkstein | Barbara Levinson | \$2,700,728 | October 1, 1996 - September 30, 1999 |

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| | | | Florida, Penn State University, Georgia Institute of Technology, USDA, University of Delaware | | | | |
| 15 | R828012 | Improved Simulation of Advection and Dispersion of Urban Air Toxics | University of Maryland, College Park, Colorado State University, Department of Environmental Protection Montgomery County, Md | Margaret A. Palmer, Nancy E. Bockstael, Glenn E. Moglen, N. LeRoy Poff, Cameron Wiegand, and Keith Van Ness | Barbara Levinson | \$1,125,212 | June 01, 2000 B May 31, 2003 |
| 16 | R825245 | Dynamic Exchange of Volatile Species and Semivolatile Organic Contaminants Across the Air-Water Interface of the Chesapeake Bay | University of Maryland | Joel E. Baker and Robert P. Mason | Deran Pashayan | \$449,989 | October 1, 1996 - September 30, 1999 |
| 17 | R825151 | Trophic Transfer of Atmospheric and Sedimentary Contaminants Into the Great Lakes Fisheries Controls on the Ecosystem Scale Response Times | University of Maryland; Michigan State University | Joel E. Baker; Nathaniel E. Ostrom, | Barbara Levinson | \$617,254 | October 1, 1996 - September 30, 1999 |
| 18 | R823364 | Estimating Ownership and Use of Older Cars | University of Maryland, Baltimore Co.; University of Colorado, Boulder; Resources for the Future, Washington, DC | Virginia D. McConnell, Anna Alberini, Winston Harrington | Deborah Hanlon | \$50,000 | June 12, 1995 - June 11, 1996 |
| 19 | R826110 | Assessment of forest disturbance in the mid-Atlantic region: a multi-scale linkage between terrestrial and aquatic ecosystems | University of Maryland, University of Virginia, Oregon State University | Keith N. Eshleman, Robert H. Gardner, Louis F. Pitelka, Steven W. Seagle, James N. Galloway, James R. Webb, and Alan T. Herlihy | Barbara Levinson | \$697,834 | October 1, 1997 - September 30, 2000 |
| 20 | R824766 | Integrated Ecological Economic Modeling and Valuation of Watersheds | University of Maryland | Robert Costanza | Barbara Levinson | \$1 Million | November 1, 1995 - November 1, 1998 |
| 21 | R826598 | Development And Testing Of A Multi-Resource Landscape-Scale Ecological Indicator: Forest Fragmentation, Structure, and Distribution Relative to Topography | University of Maryland | Steven W. Seagle and Philip A. Townsend | Barbara Levinson | \$683,374 | October 1, 1998 - September 30, 2001 |
| 22 | U915224 | Dynamics of An Adaptive Host-Parasitoid System | University of Maryland | Chad E. Brassil | none | none | none |
| 23 | R826134 | Stages in Sublethal Exposure to EDCs in a Quail Model System | University of Maryland | Mary Ann Ottinger | David Reese | \$262,634 | December 1, 1997 - November 30, 2000 |
| 24 | R827100 | Nitric Oxide as an Immune Effector Molecule of Bivalves: Modulation by Environmental Chemicals | University of Maryland | Robert S. Anderson | Clyde Bishop | \$335,064 | October 1, 1998 - September 30, 2001 |
| 25 | R826612 | Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices | American University,1 Stanford University,2 University of Maryland,3 Southern Illinois University,4 Indiana University5 | James Salzman,1 Paul Ehrlich,2 Gretchen Daily,2 Herman Daly,3 Dennis King,3 J.B. Ruhl,4 Robert Fischman,5 | Deran Pashayan | \$163,265 | June 1, 1998 - December 31, 1999 |
| 26 | R826617 | The Impact of Farmland Preservation Programs | University of Maryland | Nancy E. Bockstael and Cynthia J. Nickerson | Ainsley Caldwell | \$80,860 | October 1, 1998 - September 30, 1999 |
| 27 | U915356 | Use of Multiple Isotope Tracers (d15N, D34S, D13C, D18O) to Track Changes in Denitrification Electron Donors | University of Maryland | Jacqueline L. Mann | none | none | none |
| 28 | U91-5366 | Retention and transport of white perch (Morone americana) and bay anchovy (Anchoa mitchilli) eggs and larvae in Chesapeake Bay: mechanisms and implications for | University of Maryland at College Park | Elizabeth W. North | Georgette Boddie | 27,631 | 8/31/98 |

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| | | recruitment. | | | | | |
| 29 | R825792 | Impact of Social Systems on Ecology and Hydrology in Urban-Rural Watersheds: Integration for Restoration | Institute of Ecosystem Studies, University of Maryland, University of Toronto, Yale University, USDA Forest Service, and Parks and People Foundation | S.T.A. Pickett, T.W. Foresman, L.R. Band, W.R. Burch, Jr., W.C. Zipperer, R.V. Pouyat, J.M. Grove, and J. Carerra | Barbara Levinson | \$999,932 | June 1, 1998 - May 31, 2001 |
| 30 | U915152 | The Effect of Sulfate and Sulfide on Mercury Methylation in Florida Everglades | University of Maryland | Janina Benoit | none | none | none |
| 31 | R825159 | Development and Application of Spectroscopic Probes for Measurement of Microbial Activity in Aquatic Ecosystems | University of North Carolina; University of Maryland-College Park | Carol Arnosti and Neil V. Blough | none | \$405,811 | November 1, 1996 - October 31, 1999 |
| 32 | R827169 | Whole Watershed Health and Restoration: Applying the Patuxent and Gwynns Falls Landscape Models to Designing a Sustainable Balance Between Humans and the Rest of Nature | University of Maryland, Center for Environmental Science | Robert Costanza, Roelof Boumans, Thomas Maxwell, Ferdinando Villa, Alexey Voinov, Lisa Wainger | Barbara Levinson | \$699,916 | March 1, 1999 -- February 28, 2001 |
| 33 | R826608 | The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments | Resources for the Future1, University of Maryland & World Bank2, University of Colorado3, University of Michigan4 | Alan J. Krupnick1, Maureen Cropper2, Anna Alberini3, Robert Belli4 | Ainsley Caldwell | \$270,000 | October 1, 1998 - September 30, 2000 |
| 34 | U915013 | The Effect of Chlorothalonil on Immune System Function in Fish and Oysters | University of Maryland | Cal Baier-Anderson | none | none | none |
| 35 | R826941 | The Choptank River: A Mid-Chesapeake Bay Index Site for Evaluating Ecosystems Responses to Nutrient Management | University of Maryland Center for Environmental Science | Thomas C. Malone, William C. Boicourt, Jeffrey C. Cornwell, Lawrence W. Harding, Jr., and J. Court Stevenson | Barbara Levinson | \$596,097 | September 15, 1998 - September 14, 2001 |
| 36 | U915015 | Role of Reactive Oxygen Species in Eastern Oyster Immunology | University of Maryland | Lisa H. Bramble | none | none | none |
| 37 | U915408 | Forest Interior Songbird Diversity and Breeding Success As A Function of Topography and Climate in the Mid-Atlantic Highlands | University of Maryland, College Park | Brian R. Sturtevant | none | none | none |
| 38 | U915374 | Phosphorus Burial in A Tidal Fresh/oligohaline Marsh | University of Maryland | Jeanna R. Bryner | none | none | none |
| 39 | U915366 | Retention and Transport of White Perch and Bay Anchovy Eggs and Larvae in Chesapeake Bay: Mechanisms and Implications for Recruitment | University of Maryland | Elizabeth W. North | none | none | none |
| 40 | R827631 | Response of Methylmercury Production and Accumulation to Changes in Hg Loading: A Whole-ecosystem Mercury Loading Study | The Academy of Natural Sciences Estuarine Research Center, The University of Maryland, Chesapeake Biological Laboratory, Canada Department of Fisheries and Oceans, Freshwater Institute | Cynthia C. Gilmour (gilmour@acnatsci.org), Andrew Heyes, Robert P. Mason, and John M. Rudd | Barbara Levinson | \$848,029 | Oct. 1, 1999 - Sept. 30, 2002 |
| 41 | R827653 | Understanding the Role of Sulfur in the Production and Fate of Methylmercury in Watersheds | Chesapeake Biological Laboratory, University of Maryland, and The Academy of Natural Science, Estuarine Research Center | Drs. Robert P. Mason (mason@cbl.umces.edu) (Chesapeake Biological Laboratory) and Cynthia Gilmour (The Academy of Natural Science) | Barbara Levinson | \$779,786 | Oct. 1, 1999 - Sept. 30, 2002 |
| 42 | R827084 | The Development of a DNA Based Specific Assay for Pfiesteria piscicida in Water and Sediments | University of Maryland Biotechnology Institutes, Baltimore1 and University of North Carolina, | David Oldach1 and Parke Rublee2 | Sheila Rosenthal | \$709,537 | October 8, 1998 - October 7, 2001 |

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| | | | Greensboro2 | | | | |
| 43 | R827161 | Mechanisms of Pb,Cd, As Interactions | University of Maryland, Baltimore | Bruce A. Fowler | Tom Veirs | \$832,000 | November 15, 1998 - November 14, 2001 |
| 44 | none | Fish in MEERC: Top-Down Control, Bioenergetic Models and Experimental Protocols | Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science | Houde and Madon | none | none | none |
| 45 | none | Scale-Dependent Production of Contaminant Binding Capacity in P/B Mesocosms | Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science | Baker and Harvey (Ashley, Turner, Mannino) | none | none | none |
| 46 | none | Effects of Biotic Complexity on the Response of Marsh Ecosystems to Nutrient Enrichment | Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science | Stevenson, Reyes, Madden (Brawley, Dewar) | none | none | none |
| 47 | none | Scaling Responses of Pelagic-Benthic Ecosystems: Variations in Light Intensity, Wall Periphyton, and Trophic Complexity | Multiscale Experimental Ecosystem Research Center (MEERC) at the University of Maryland Center for Environmental Science | Kemp (Chen and Petersen) | none | none | ending date |

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